

	Document ID	Issue Date	Pages	Title	Current OR
1	US 20050141545 A1	20050630	40	Performance of a wireless communication system	370/445
2	US 20050128966 A1	20050616	30	Communications apparatus and methods	370/310
3	US 20050111429 A1	20050526	25	System and method for dynamically allocating resources in a mobile communication system employing orthogonal frequency division multiple access	370/344
4	US 20050099937 A1	20050512	19	Apparatus and method for sub-carrier allocation in a multiple-input and multiple-output (MIMO) orthogonal frequency division multiplexing (OFDM) communication system	370/207
5	US 20050078649 A1	20050414	24	Apparatus and method of multiple antenna receiver combining of high data rate wideband packetized wireless communication signals	370/343
6	US 20050073976 A1	20050407	32	System and method for transmitting common data in a mobile communication system	370/334
7	US 20050064832 A1	20050324	42	Radio reception apparatus and radio reception method	455/168.1
8	US 20050030931 A1	20050210	37	Apparatus and method for modulating ranging signals in a broadband wireless access communication system	370/342
9	US 20050013352 A1	20050120	19	Method and controller for controlling communication resources	375/219
10	US 20050008092 A1	20050113	22	Ordered successive interference cancellation receiver processing for multipath channels	375/267
11	US 20050007946 A1	20050113	11	Multi-carrier transmission	370/203
12	US 20050002468 A1	20050106	35	Method and apparatus for processing data in a multiple-input multiple-output (MIMO) communication system utilizing channel state information	375/267
13	US 20040264561 A1	20041230	52	Filter structure for iterative signal processing	375/232
14	US 20040234004 A1	20041125	22	Time-domain transmit and receive processing with channel eigen-mode decomposition for MIMO systems	375/267

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1		Fein, Yaron et al.
2		Yee, Mong Suan
3	370/468	Kim, So-Hyun et al.
4		Oh, Hyun-Seck et al.
5		Tehrani, Ardavan M. et al.
6		Fujii, Masaaki
7	455/193.1	Kogawa, Tsuyoshi et al.
8	370/335	Sung, Sang-Hoon et al.
9		Hottinen, Ari
10		Kadous, Tamer
11	370/343	Barreto, Andre Noll
12		Walton, Jay R. et al.
13		Alexander, Paul Dean et al.
14		Ketchum, John W. et al.

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15	US 20040228272 A1	20041118	29	OFDM receiving method and OFDM receiving apparatus	370/210
16	US 20040213187 A1	20041028	40	Transmit diversity system method and computer program product	370/335
17	US 20040198265 A1	20041007	33	Method and apparatus for signal decoding in a diversity reception system with maximum ratio combining	455/118
18	US 20040190598 A1	20040930	28	Multicarrier CDMA transmission system and transmission method	375/141
19	US 20040178954 A1	20040916	15	Method and apparatus for multi-antenna transmission	342/383
20	US 20040156309 A1	20040812	19	Novel receiver architecture for pilot based OFDM systems	370/208
21	US 20040141548 A1	20040722	31	Software adaptable high performance multicarrier transmission protocol	375/146
22	US 20040131011 A1	20040708	21	Transmission signals, method and apparatus	370/210
23	US 20040121827 A1	20040624	80	Receiving apparatus, transmitting apparatus, and reception method	455/575.7
24	US 20040114675 A1	20040617	32	OFDM pilot tone tracking for wireless LAN	375/149
25	US 20040114506 A1	20040617	28	Transmitting and receiving method for reducing distortion caused by a time-varying channel in an orthogonal frequency division multiplex system	370/208
26	US 20040100897 A1	20040527	25	Carrier interferometry coding with applications to cellular and local area networks	370/206
27	US 20040086027 A1	20040506	42	Orthogonal superposition coding for direct-sequence communications	375/146
28	US 20040071104 A1	20040415	57	Multi-mode method and apparatus for performing digital modulation and demodulation	370/320
29	US 20040047405 A1	20040311	46	Flexible method and apparatus for performing digital modulation and demodulation	375/219
30	US 20040008614 A1	20040115	18	Signal selection systems	370/203
31	US 20040001554 A1	20040101	21	Antenna signal processing systems	375/260

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15	370/428	Hasegawa, Tsuyoshi et al.
16		Fujil, Masaaki
17	455/115.1 ; 455/135	Wallace, Bradley A. et al.
18		Seki, Hiroyuki et al.
19		Vook, Frederick W. et al.
20		Chadha, Kanu et al.
21	375/260	Shattil, Steve J.
22	370/208	Sandell, Magnus et al.
23	455/121	Murakami, Yutaka et al.
24	375/260; 375/327	Crawford, James A.
25	370/431	Chang, Kyung-Hi et al.
26		Shattil, Steve J.
27	370/208; 375/147	Shattil, Steve J.
28	370/208; 370/338; 370/342	Boesel, Robert W. et al.
29		Boesel, Robert W. et al.
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32	US 20030235255 A1	20031225	24	Signal processing with channel eigenmode decomposition and channel inversion for MIMO systems	375/285
33	US 20030189999 A1	20031009	22	Ordered successive interference cancellation receiver processing for multipath channels	375/349
34	US 20030156570 A1	20030821	39	Method for frequency division duplex communications	370/347
35	US 20030125040 A1	20030703	72	Multiple-access multiple-input multiple-output (MIMO) communication system	455/454
36	US 20030123582 A1	20030703	35	Joint equalization, soft-demapping and phase error correction in wireless system with receive diversity	375/347
37	US 20030123530 A1	20030703	81	Receiver, transmitter, communication system, and method of communication	375/148
38	US 20030112880 A1	20030619	31	Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion	375/260
39	US 20030108117 A1	20030612	22	Time-domain transmit and receive processing with channel eigen-mode decomposition for MIMO systems	375/295
40	US 20030104797 A1	20030605	15	Soft decision gain compensation for receive filter attenuation	455/296
41	US 20030086371 A1	20030508	17	Adaptive rate control for OFDM communication system	370/235
42	US 20030063678 A1	20030403	31	OFDM pilot tone tracking to reduce performance loss due to frequency pulling and pushing	375/260
43	US 20030048856 A1	20030313	27	Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel inversion	375/260
44	US 20030043887 A1	20030306	29	Communication system and methods of estimating channel impulse responses therein	375/144
45	US 20030043732 A1	20030306	31	Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel transmission	370/208

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32		Ketchum, John W. et al.
33	375/267; 375/299; 375/347	Kadous, Tamer
34	370/208	Alamouti, Siavash et al.
35	455/450	Walton, Jay R. et al.
36		Kim, Younggyun et al.
37		Maeda, Noriyuki et al.
38		Walton, Jay R. et al.
39	375/346	Ketchum, John W. et al.
40	455/226.1	Webster, Mark A. et al.
41	370/329	Walton, Jay R. et al.
42		Crawford, James A.
43		Ketchum, John W. et al.
44		Hudson, John E.
45	370/203; 370/329	Walton, Jay R. et al.

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46	US 20030035491 A1	20030220	35	Method and apparatus for processing data in a multiple-input multiple-output (MIMO) communication system utilizing channel state information	375/267
47	US 20030003880 A1	20030102	33	Method and apparatus for utilizing channel state information in a wireless communication system	455/92
48	US 20020176485 A1	20021128	21	Multi-cast communication system and method of estimating channel impulse responses therein	375/144
49	US 20020176483 A1	20021128	32	OFDM pilot tone tracking for wireless LAN	375/137
50	US 20020159533 A1	20021031	34	OFDM pilot tone tracking for wireless lan	375/260
51	US 20020150168 A1	20021017	16	Optimum phase error metric for OFDM pilot tone tracking in wireless LAN	375/260
52	US 20020126741 A1	20020912	20	Method and system for transmission and frequency domain equalization for wideband CDMA system	375/144
53	US 20020122465 A1	20020905	179	Highly bandwidth-efficient communications	375/141
54	US 20020060990 A1	20020523	12	OFDM pre-equalizing	370/270
55	US 20020027875 A1	20020307	40	OFDM transmitting and receiving apparatus and OFDM transmitting and receiving method	370/203
56	US 20010050926 A1	20011213	60	In-band on-channel digital broadcasting method and system	370/529
57	US 20010024475 A1	20010927	45	AM- COMPATIBLE DIGITAL BROADCASTING METHOD AND SYSTEM	375/270
58	US 6927728 B2	20050809	14	Method and apparatus for multi-antenna transmission	342/377

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46	375/260; 455/132	Walton, Jay R. et al.
47		Ling, Fuyun et al.
48	375/260; 375/340	Hudson, John E.
49	370/208; 375/376	Crawford, James A.
50		Crawford, James A.
51	375/262; 375/341	Crawford, James A.
52	375/146; 375/148	Baum, Kevin et al.
53		Agee, Brian G. et al.
54	370/482	Bohnke, Ralf et al.
55	370/260	Sudo, Hiroaki et al.
56	370/487; 375/347	Kumar, Derek D.
57		KUMAR, DEREK D.
58	375/267	Vook; Frederick W. et al.

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59	US 6853629 B2	20050208	35	Method for frequency division duplex communications	370/330
60	US 6842487 B1	20050111	18	Cyclic delay diversity for mitigating intersymbol interference in OFDM systems	375/260
61	US 6834043 B1	20041221	26	Method and device for exploiting transmit diversity in time varying wireless communication systems	370/310
62	US 6826240 B1	20041130	29	Method and device for multi-user channel estimation	375/340
63	US 6801580 B2	20041005	20	Ordered successive interference cancellation receiver processing for multipath channels	375/267
64	US 6785520 B2	20040831	24	System and method for antenna diversity using equal power joint maximal ratio combining	455/101
65	US 6785513 B1	20040831	35	Method and system for clustered wireless networks	455/63.1

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59	370/203; 370/206; 370/281; 370/321; 370/329; 370/336; 370/337; 370/343; 370/344; 375/267; 375/299; 375/347	Alamouti; Siavash et al.
60	455/10	Larsson; Peter
61	370/203; 370/335; 370/342; 375/295; 375/347; 455/65; 455/69	Vook; Frederick W. et al.
62	375/347	Thomas; Timothy A. et al.
63	370/208; 375/144; 375/347	Kadous; Tamer
64	375/299; 375/347; 455/272; 455/276.1; 455/334; 455/522; 455/562.1	Sugar; Gary L. et al.
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66	US 6785341 B2	20040831	33	Method and apparatus for processing data in a multiple-input multiple-output (MIMO) communication system utilizing channel state information	375/267
67	US 6765969 B1	20040720	28	Method and device for multi-user channel estimation	375/259
68	US 6760388 B2	20040706	21	Time-domain transmit and receive processing with channel eigen-mode decomposition for MIMO systems	375/295
69	US 6751187 B2	20040615	29	Method and apparatus for processing data for transmission in a multi-channel communication system using selective channel transmission	370/210
70	US 6747945 B2	20040608	39	OFDM transmitting and receiving apparatus and OFDM transmitting and receiving method	370/203
71	US 6687492 B1	20040203	32	System and method for antenna diversity using joint maximal ratio combining	455/276.1
72	US 6647078 B1	20031111	18	Method and device for multi-user frequency-domain channel estimation based on gradient optimization techniques	375/349
73	US 6633616 B2	20031014	32	OFDM pilot tone tracking for wireless LAN	375/326

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66	375/346	Walton; Jay R. et al.
67	375/295; 375/316	Vook; Frederick W. et al.
68		Ketchum; John W. et al.
69	370/334; 370/437; 375/346; 455/522	Walton; Jay R. et al.
70	370/210; 370/481; 375/260; 375/265	Sudo; Hiroaki et al.
71	455/114.2 ; 455/129; 455/63.1; 455/63.4; 455/67.11 ; 455/67.16 ; 455/69	Sugar; Gary L. et al.
72	375/285; 375/346; 455/278.1 ; 455/63.1	Thomas; Timothy A. et al.
73	370/206; 370/210; 375/147; 375/260; 375/349	Crawford; James A.

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74	US 6621851 B1	20030916	180	Priority messaging method for a discrete multitone spread spectrum communications system	375/130
75	US 6560209 B1	20030506	38	Method for frequency division duplex communications	370/330
76	US 6549583 B2	20030415	16	Optimum phase error metric for OFDM pilot tone tracking in wireless LAN	375/260
77	US 6549561 B2	20030415	32	OFDM pilot tone tracking for wireless LAN	375/137
78	US 6510175 B1	20030121	51	In-band on-channel digital broadcasting	375/216
79	US 6504506 B1	20030107	15	Method and device for fixed in time adaptive antenna combining weights	342/383
80	US 6480522 B1	20021112	179	Method of polling second stations for functional quality and maintenance data in a discrete multitone spread spectrum communications system	375/130
81	US 6362781 B1	20020326	23	Method and device for adaptive antenna combining weights	342/383
82	US 6359923 B1	20020319	244	Highly bandwidth efficient communications	375/130
83	US 6351500 B1	20020226	44	AM- compatible digital broadcasting method and system	375/270
84	US 6345036 B1	20020205	39	OFDM transmitting/receiving device and method	370/203

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74	370/242; 375/135	Agee; Brian G. et al.
75	370/203; 370/206; 370/281; 370/329; 370/336; 370/337	Alamouti; Siavash et al.
76	370/206; 370/210; 375/130; 375/349	Crawford; James A.
77	370/206; 370/210; 375/326; 375/328	Crawford; James A.
78	455/143	Hunsinger; Billie J. et al.
79	342/367	Thomas; Timothy A. et al.
80	370/242; 375/135	Hoole; Elliott et al.
81	342/367	Thomas; Timothy A. et al.
82	370/342; 375/135; 375/136	Agee; Brian G. et al.
83	329/357; 332/170; 375/301; 375/321; 455/109; 455/47	Kumar; Derek D.
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87	US 5949796 A	19990907	59	In-band on-channel digital broadcasting method and system	370/529
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89	US 5867478 A	19990202	38	Synchronous coherent orthogonal frequency division multiplexing system, method, software and device	370/203
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87	370/487; 375/347	Kumar; Derek D.
88	370/203; 370/281	Alamouti; Siavash et al.
89	370/208; 370/343; 370/480	Baum; Kevin Lynn et al.
90	455/143; 455/74	Hunsinger; Billie J. et al.
91	370/500; 370/527; 375/269; 375/270; 375/285	Hunsinger; Billie J. et al.
92	375/229; 375/260; 375/355; 375/362	Kumar; Derek D.
93	375/232; 375/270; 455/102; 455/143; 455/202; 455/65	Hunsinger; Billie J. et al.